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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A system for computer-aided intravenous delivery of anesthetics and/or other drugs to a patient, and which comprises:

an Infusion Controller arranged for delivering an amount of drug(s) to a patient;

a Communication Controller connected with infusion pumps and/or monitors;

a Graphic User Interface to display different views of the system and to accept user input;

a first interface to link the Infusion Controller to views displayed by said Graphical User Interface;

~~characterized in that said system further comprises~~

a Session Controller arranged to carry out the modeling of anesthesia procedures and arranged to run a first procedure and to dynamically adapt said first procedure and/or select and run a second procedure based upon one or more of said sensors' output and/or observation from a physician;

a second interface linking said Session Controller to said views displayed by said Graphical User Interface;

a Processor or Infusion Session Manager integrating the Graphic User Interface, the Infusion Controller, the Communication Controller and the Session Controller and arranged for steering drug delivery, ~~and~~

wherein the system also contains a set of configurable written procedures to steer intravenous anesthetic drug delivery and/or other drug delivery, whereby said procedures ~~have been~~ are adapted to the type of surgical action and/or therapy, adapted to the patient's physical condition, and adapted to the type of drugs, tools and theoretical models used.

2. (ORIGINAL) The system according to claim 1 further comprising a DataLogger Controller with one or more sensors adapted so as to be coupled to a patient and to generate signals reflecting one or more health conditions or statuses of the patient, whereby a third interface is provided for linking the Datalog Controller to said views by the Graphical user interface, said Datalog Controller further being integrated by said Processor or Infusion Session Manager.

3. (CURRENTLY AMENDED) The system according to claim 1 ~~or 2~~, further comprising an Archiving Manager which is in contact with the Infusion Session Manager and is under the control of the same program as the Infusion Session Manager.

4. (CURRENTLY AMENDED) The system according to ~~claims 1, 2, or 3~~ claim 1, wherein the Archiving Manager and the Infusion Session Manager may be independently transportable units.

5. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein the person in charge or the user may set the level of desired assistance ~~desired~~ via a graphical user interface.

6. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein only an expert user is allowed to edit and/or make permanent changes to the procedures.

7. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein the trigger to launch or change a running procedure comes from an internal state and/or from an externally received command or request.

8. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein the procedures contain tasks and/or commands per major event, phase or step in said surgery and/or therapy.

9. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein the Infusion Controller is arranged for administering at least one intravenous drug selected from the group consisting of hypnotics, analgesics, amnesics, paralyzing agents, vasodepressors and pressor substances and any drug that is used in cancer therapy ~~and other drugs~~.

10. (CURRENTLY AMENDED) The system according to claim 9, wherein the ~~said~~ hypnotic is propofol ~~and/or said analgesic is remifentanil and/or said amnesic is mivacurium~~.

11. (CURRENTLY AMENDED) The system according to claim 10, wherein the drug state model for propofol is that of Schnider ~~and the drug state model for remifentanil that of Minto~~.

12. (Original) The system according to claim 9, wherein the drug used in cancer therapy is applied in combination with antibiotics.

13. (CANCELLED)

14. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, which further contains ~~containing~~ constraints and/or safety measures that dictate that a minimal amount of time has to pass between to subsequent modifications to a procedure.

15. (CURRENTLY AMENDED) The system according to ~~any of the preceding claims~~ claim 1, wherein the reliability of a signal or parameter is determined by the quality of said signal, by its relation with other related signals or parameters and/or by the deviation from a normal value and/or from a safe range.

16. (NEW) The system according to claim 9, wherein the analgesic is remifentanil.

17. (NEW) The system according to claim 9, wherein the amnesic is mivacurium.

18. (NEW) The system of claim 16, wherein the drug state model for remifentanil is that of Minto.

19. (NEW) A method for intravenous anesthesia which comprises the step of obtaining an intravenous delivery of a drug to a patient by the system of claim 1.

20. (NEW) A method for the treatment of cancer which comprises the step of obtaining an intravenous delivery of a drug to a patient by the system of claim 1.